

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	((koudas and nikolaos).in. or (guha and sudipto).in.) and (matrix or matrices)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 15:01
L2	0	((koudas and nikolaos).in. or (guha and sudipto).in.) and (SVD)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 15:01
L3	7	(Johnson-Lindenstrauss or (Johnson adj Lindenstrauss))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 15:57
L4	918	@ad<"20030410" and (matrix or matrices) and correlat\$4 and (SVD or (singular adj value adj decomposition))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:05
L5	231	4 and quantif\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 15:58
L6	3	5 and "708"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:02
L7	15	4 and "708"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:02
L8	12	7 not 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:04

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L9	1	@ad<"20030410" and (matrix or matrices) and correlat\$4 and (SVD or (singular adj value adj decomposition)) and 708/400-446.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:37
L10	5	@ad<"20030410" and (matrix or matrices) and (SVD or (singular adj value adj decomposition)) and 708/400-446.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:10
L11	1711	@ad<"20030410" and (matrix or matrices) and (SVD or (singular adj value adj decomposition))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:07
L12	465	(eigenvector\$1 or eigen-vector\$1) and 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:08
L13	355	(eigenvector\$1 or eigen-vector\$1) and (eigenvalue\$1 or eigen-value\$1) and 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:09
L14	327	13 and reduc\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:09
L15	318	(dimension\$3 or size\$1) and 14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:10
L16	89	15 and ((SVD or (singular adj value adj decomposition)).ti,clm,ab.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:11

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L17	221	15 and correlat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:11
L18	1	@ad<"20030410" and (matrix or matrices) and correlat\$4.ti,clm,ab. and synchronous and asynchronous	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:38
L19	11	@ad<"20030410" and (matrix or matrices) and correlat\$4 and synchronous and asynchronous	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:46
L20	499	708/422-426.ccls. and @ad<"20030410"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:48
L21	83	20 and (matrix or matrices)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:05
L22	0	(SVD or (singular adj value adj decomposition)) and (Johnson-Lindenstrauss or (Johnson adj Lindenstrauss))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:05
S1	15	(koudas.in. and nikolaos.in.) or (guha.in. and sudipto.in.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 14:47
S2	0	S1 and corelat\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:43

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S3	0	S1 and singular	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:41
S4	0	@ad<"20030410" and (SVD or (singular adj value adj decomposition)) and corelat\$5 and (matrix or matrices)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:43
S5	2449	@ad<"20030410" and (SVD or (singular adj value adj decomposition))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:42
S6	1	S5 and corelat\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:42
S7	908	@ad<"20030410" and (SVD or (singular adj value adj decomposition)) and correlat\$5 and (matrix or matrices)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 17:14
S8	5	S1 and correlat\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:43
S9	266	correlat\$5.ti,clm,ab. and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:44
S10	1332516	9a nd "708"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:44

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S11	2	S9 and "708"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:44
S12	51	("4228517"   "4238849"   "4281217"   "4379947"   "4403331"   "4476573"   "4498195"   "4513288"   "4621355"   "4633285"   "4658296"   "4660192"   "4712240"   "5038402"   "5073898"   "5103459"   "5121211"   "5121407"   "5133081"   "5136611"   "5150377"   "5164959"   "5175710"   "5202900"   "5210770"   "5216693"   "5218717"   "5222101"   "5239560"   "5241562"   "5249200"   "5278826"   "5278844"   "5280537"   "5282222"   "5285472"   "5287388"   "5291289"   "5291520"   "5297033"   "5307378"   "5309474"   "5452328").PN. OR ("5903598"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/19 16:48
S13	15	@ad<"20030410" and (SVD or (singular adj value adj decomposition)) and correlat\$5 and (matrix or matrices) and "708"/\$. ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 17:14
S14	2	"6665822".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 14:31

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Matrix multiplication; **SVD** computation; L2 regression. VLSI layout Design [V98]; Learning [AV99, ... History of **Johnson-Lindenstrauss** Dimension Reduction ...

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SIGMOD, 1994. Data **reduction**, eg. DFT, DWT, **SVD**. GEMINI: an example ... A set of random base (non-deterministic); Based on **Johnson-Lindenstrauss** (JL) Lemma ...

[cs1.cs.nyu.edu/shasha/papers/statstream/stat\\_doc/thesis.ppt](http://cs1.cs.nyu.edu/shasha/papers/statstream/stat_doc/thesis.ppt) - Supplemental Result -

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We solve the resulting semi definite program, round the solution  $X$  # into a convenient form, and then apply the **JohnsonLindenstrauss** dimension **reduction** ...

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**SVD** Cont'd. Advantages:. Optimal dimensionality **reduction** (for linear projections).

Disadvantages: .... Based on the **Johnson-Lindenstrauss** lemma; For: ...

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**reduction** technique by **SVD**, for the rest of the ..... proof of the **Johnson-Lindenstrauss** lemma. Technical Report TR-99-006, International ...

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Original data points are high dimensional; Sketches are points low dimensions; Dimension **reduction** in normed spaces [**Johnson Lindenstrauss** '84] ...

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